USER´S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D´UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D´USO

# cameo®

LED
TECHNOLOGY

ZOOM

c ETL us
LISTED
Intertek

STROBE EFFECT

DAYLIGHT

FLICKER FREE

WARM WHITE

MASTER/SLAVE

512
DMX

STAND ALONE MODE

RDM

GREEN SOLUTION
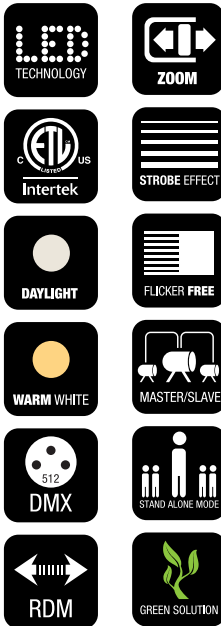
V1.10

# F1 T
COMPACT FRESNEL SPOTLIGHT WITH TUNGSTEN LED
CLF1T

# F1 D
COMPACT FRESNEL SPOTLIGHT WITH DAYLIGHT LED
CLF1D

# CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

# ENGLISH

**YOU'VE MADE THE RIGHT CHOICE!**
We have designed this product to operate reliably over many years. Please read this User's Manual carefully, so that you can begin making optimum use of your Cameo Light product quickly. Learn more about Cameo Light on our website WWW.**CAMEOLIGHT**.COM.

**INTENDED USE**
This product is a device for event technology! The product has been specially developed for professional use in the area of event technology and is not suitable for use in a household setting! Furthermore, this product is only intended for qualified users with expertise in event technology! Use of the product contrary to the specified technical data and operating conditions is considered improper! Liability for damages or third-party damage to persons and property due to improper use is excluded!

## PREVENTIVE MEASURES

1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.
4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observe the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. This appliance is designed exclusively for indoor use, do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below). Do not expose this equipment to flammable materials, fluids or gases.
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in anot her way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.

**FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:**
22. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.
25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. IMPORTANT INFORMATION: Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed. However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
32. The device must only be installed in a voltage-free condition (disconnect the mains plug from the mains).
33. Dust and other debris inside the unit may cause damage. The unit should be regularly serviced or cleaned (no guarantee) depending on ambient conditions (dust etc., nicotine, fog) by qualified personnel to prevent overheating and malfunction.

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DMX

**3**

34. Please keep a distance of at least 0.5 m to any combustible materials.

35. Power cables to power multiple devices must have a cross-section of at least 1.5 mm². Within the EU, the cables must correspond to H05VV-F, or similar. Suitable cables are offered by Adam Hall. With these cables, you can connect multiple devices via the power OUT connection to the power IN connection of an additional device. Make sure that the total current consumption of all connected devices does not exceed the specified value on all connected devices (label on the device). Make sure to keep power cable connections as short as possible.

**CAUTION:**
To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.

The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.

The warning triangle with exclamation mark indicates important operating and maintenance instructions.

Warning! This symbol indicates hot surfaces. Specific housing parts can become hot during operation. Allow the device to cool for at least ten minutes after use. Only then can it be transported or touched.

Warning! This device is designed for use below 2000 metres in altitude.

Warning! This product is not intended for use in tropical climates.

Caution! Intense LED light source! Risk of eye damage. Do not look into the light source.

**CAUTION! IMPORTANT INFORMATION ABOUT LIGHTING PRODUCTS!**
1. Do not stare, even temporarily, directly into the light beam.
2. Do not look at the beam directly with optical instruments such as magnifiers.
3. Strobe effects can trigger epileptic seizures in susceptible individuals! People with epilepsy should therefore avoid places where strobe effects are used.

# INTRODUCTION

### CONTROL FUNCTIONS

1-channel, 2-channel 1, 2-channel 2, 3-channel, 4-channel and 5-channel DMX-functions

Master/Slave operation

Standalone functions

### FEATURES

15.4° to 54.3° beam angle, manual zoom. 150 mm Fresnel lens. Configurable PWM frequency (flicker-free). DMX-512 control. RDM-enabled. Manual control. Quicklight function. 4 dimmer curves. 16-bit dimming. Master/slave mode. Extremely quiet operation thanks to heat pipe cooling and fan. Operating voltage: 100–240 V AC / 50–60 Hz. Power consumption: 87 W. Mounting bracket, filter frame, and 8-way barn door included. DC input for battery operation (11–17 V). Adapter for V-mount batteries optionally available.

### LIGHT SOURCE CLF1T

1 x High Power 78 W Tungsten-LED (warm white).

### LIGHT SOURCE CLF1D

1 × High Power 78 W daylight LED (cold white).

Both spotlights feature the RDM standard (remote device management). Remote device management allows the user to view status and configuration of RDM terminals via an RDM-capable controller.

# CONNECTIONS, OPERATING AND DISPLAY ELEMENTS

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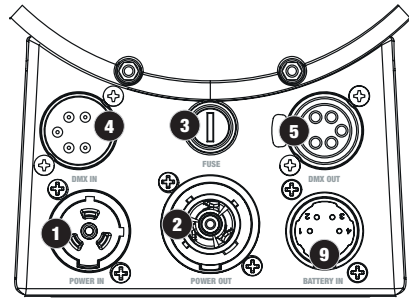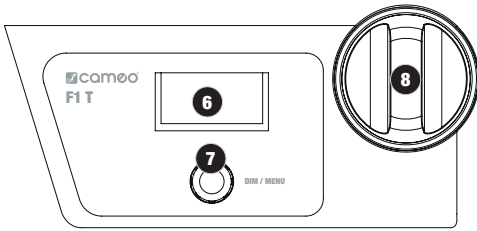
**① POWER IN**

TRUE1 compatible mains input socket. Operating voltage 100 - 240 V AC / 50 - 60Hz.

**② POWER OUT**

TRUE1 compatible mains output socket for mains supply of additional CAMEO spotlights. Ensure that the total current consumption of all connected devices does not exceed the value specified on the device in amperes (A).

**③ FUSE**

Fuse holder for 5 × 20 mm micro fuses. IMPORTANT NOTE: Replace the fuse only with a fuse of the same type and values (see inscription on housing). If a fuse trips repeatedly, please contact an authorized service center.

**④ DMX IN**

Male 5-pin XLR socket for connection to a DMX control device (e.g. DMX console).

**⑤ DMX OUT**

Female 5-pin XLR socket for sending the DMX control signal.

**⑥ OLED DISPLAY**

Displays currently active mode and the menu items in the Edit menu.

**⑦ DIM/MENU**

Rotary-push encoder for the adjustment and control of the spotlight.

**DIM** – If one of the DMX modes is enabled and there is no DMX signal to the device, the encoder serves as master dimmer control and you can set the brightness of the spotlight with values from 000 to 255 by turning the encoder (Quicklight).

> **Quicklight**
> **000-255**

**MENU** – Push the encoder to access the main menu and select menu items by turning the encoder.

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DMX

```
---------------- Menu ----------------

▶  ⬅

   DMX Address
   DMX mode
   Stand Alone
   Slave
   Settings
   System Info
```
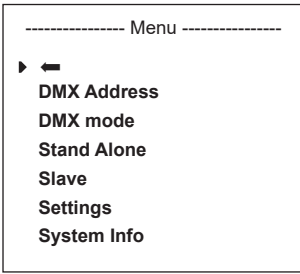
**8  ZOOM**

On either side of the cabinet is a calibration control to manually adjust the beam angle. The two controls are mechanically linked and are directly opposite each other on the housing. Turn the calibration control to adjust the beam angle of the spotlight continuously. A rack and pinion system moves the zoom tube with the Fresnel lens in and out of the housing. The further the zoom tube protrudes from the housing, the smaller the beam angle. A stop mechanism prevents the tube from becoming detached from the housing.

**9  BATTERY**

Male 4-pin XLR socket connection to an external rechargeable battery (battery not included in package contents). A mounting plate with V-mount adapter and connection cable is optionally available (article number: CLF1VMOUNTAP).

## OPERATION

**TIPS**

• As soon as the spotlight is correctly is connected to the power supply, the following will be displayed in succession: "Welcome to Cameo", the model name and the software version. After this process, the lamp is ready for operation and starts in the previously enabled mode.

• If one of the DMX modes or slave mode is enabled and there is no control signal at the DMX input, the characters in the display will start to flash.

• If no input is made within approximately 30 seconds, the currently activated mode is automatically shown in the display (main display).

**MAIN DISPLAY**

The main display shows the currently activated mode (in the example DMX mode with DMX start address 001).

```
       DMX Address
          001
```
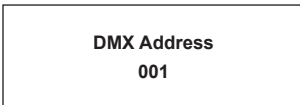
**SETTING DMX START ADDRESS (DMX ADDRESS)**

Press the encoder to access the main menu. Rotate the encoder to select the menu item "DMX Address" (left arrow) and confirm by pushing the encoder. You can now configure the DMX start address as required by rotating the encoder (the highest value depends on the selected DMX mode). Confirm the entry by pushing the encoder. Select the arrow symbol at the top of the menu for "back" and push the encoder to return to the main display. DMX mode is automatically activated when setting the DMX start address.

```
---------------- Menu ----------------

   ⬅

▶  DMX Address
   DMX mode
   Stand Alone
   Slave
   Settings
   System Info
```

```
001
 –
5xx
```

```
       DMX Address
          001
```
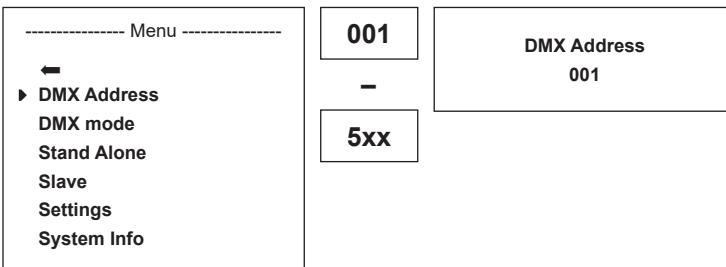
## CONFIGURING DMX MODE (DMX Mode)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "DMX Mode" (left arrow) and confirm by pushing the encoder. You can now select the desired DMX mode by rotating the encoder. Confirm the selection by pushing the encoder. Select the arrow symbol at the top of the menu for "back" and push the encoder to return to the main display. Tables with the channel assignment of the different DMX modes can be found in these instructions under DMX CONTROL.

```
--------------- Menu ---------------

    ⬅
    DMX Address
  ▶ DMX Mode
    Stand Alone
    Slave
    Settings
    System Info
```

```
------------ DMX Mode ------------

    ⬅
  ▶ 5CH
    4CH
    3CH
    2CH 2
    2CH 1
    1CH
```

```
       DMX Address
          001
```

## STAND-ALONE MODE (Static mode)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "Stand Alone" (left arrow) and confirm by pushing the encoder. Now select the submenu item "Dimmer" and confirm by pushing the encoder and rotate the encoder to set the desired brightness with values between 000 (blackout) and 255 (maximum brightness). Confirm your entry by pressing the encoder. A stroboscopic effect can now be activated as required and set in the same way (strobe value 000 = strobe off. Value 001 = lowest flash frequency. Value 255 = highest flash frequency). Now select the arrow symbol for "back" at the top of the submenu. Push the encoder and access the main menu in the same way to return to the main display.

```
--------------- Menu ---------------

    ⬅
    DMX Address
    DMX mode
  ▶ Stand Alone
    Slave
    Settings
    System Info
```

```
---------- Stand Alone ----------

    ⬅
  ▶ Dimmer        <255>
    Strobe        <255>
```

```
   000
    –
   255
```

```
       Mode
       Static
```

## SLAVE MODE

Press the encoder to access the main menu. Rotate the encoder to select the menu item "Slave" (left arrow) and confirm by pushing the encoder. Slave mode is now enabled, and the main display is automatically displayed. Connect the slave and the master units (same model) with a DMX cable and enable the standalone mode static on the master unit. Now the slave unit will follow the master unit.

```
--------------- Menu ---------------

    ⬅
    DMX Address
    DMX mode
    Stand Alone
  ▶ Slave
    Settings
    System Info
```

```
       Mode
       Slave
```

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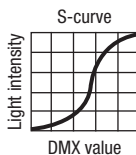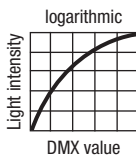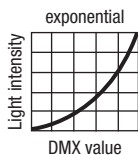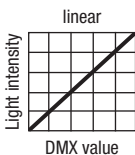
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## DEVICE SETTINGS (Settings)

Press the encoder to access the main menu. Rotate the encoder to select the menu item "Settings" (left arrow) and confirm by pushing the encoder. This will take you to the submenu for setting the submenu items (see table, rotate the encoder to select and push the encoder to confirm selection). Now select the arrow symbol for "back" at the top of the submenu. Push the encoder and access the main menu in the same way to return to the main display.

```
--------------- Menu ----------------

  ←
  DMX Address
  DMX mode
  Stand Alone
  Slave
▶ Settings
  System Info
```
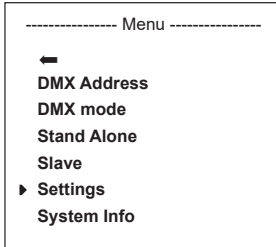
| Settings | | | | |
|---|---|---|---|---|
| Display Reverse | = | Rotate display | ← | Back |
| | | | On | Display is rotated by 180° (e.g. for overhead installation) |
| | | | Off | No display rotation |
| Display Off | = | Display lighting | ← | Back |
| | | | On | On permanently |
| | | | Off | Deactivation after approximately 1 minute of inactivity |
| DMX fail | = | Operational status with DMX signal fault | ← | Back |
| | | | Hold | Last command is retained |
| | | | or blackout, | Activates blackout |
| | | | Full On | Spotlight switches to full on |
| | | | Standalone | Stand alone mode is activated |
| Dimmer curve | = | Dimmer curve | ← | Back |
| | | | Linear | Light intensity increases linearly with DMX value |
| | | | Exponential | Light intensity can be finely adjusted at lower DMX values and broadly adjusted at higher DMX values |
| | | | Logarithmic | Light intensity can be broadly adjusted at lower DMX values and finely adjusted at higher DMX values |
| | | | S-curve | Light intensity can be finely adjusted at lower and higher DMX values and broadly adjusted at medium DMX values |
| Dimmer response | = | Dimmer response | ← | Back |
| | | | LED | Light responds abruptly to changes in DMX value |
| | | | Halogen | Light behaves like a halogen spotlight with slight brightness changes |
| LED Frequency | = | LED PWM frequency | ← | Back |
| | | | 800 Hz / 1200 Hz / 2000 Hz / 3600Hz / 12 kHz / 25 kHz | Configuration of LED PWM frequency |
| Fan | = | Adjust fan control | ← | Back |
| | | | Car | Automatic fan speed control |
| | | | Off | Deactivated fan with greatly reduced brightness |
| | | | Constant Low | Constantly low fan speed with reduced brightness, if necessary |
| | | | Constant Medium | Constant average fan speed with reduced brightness, if necessary |
| Fan | = | Adjust fan control | Constant High | Constant high fan speed |
| Factory Reset | = | Reset to factory setting | ← | Back |
| | | | Reset Now! | Reset to factory settings |

**DIMMER CURVES**



| linear | exponential | logarithmic | S-curve |
|--------|-------------|-------------|---------|

**SYSTEM INFORMATION (System Info)**

Press the encoder to access the main menu. Rotate the encoder to select the menu item "System info" (left arrow) and confirm by pushing the encoder. This will take you to the submenu for selecting the submenu items (see table, rotate the encoder to select and push the encoder to confirm selection). Now select the arrow symbol for "back" at the top of the submenu. Push the encoder and access the main menu in the same way to return to the main display.

```
--------------- Menu ---------------

    ⬅
  DMX Address
  DMX mode
  Stand Alone
  Slave
  Settings
▸ System Info
```

| System Info | | | | |
|-------------|---|-------------------------------------|----------|-----------------------------------------------------|
| Firmware | = | Displays device firmware | Main CPU | Vx.xx |
| Temperature | = | Displays temperature of LED unit | ⬅ | Back |
| | | | LED | xx°C / xx°F |
| | | | Unit | °C (= display in degrees Celsius) |
| | | | | °F (= display in degrees Fahrenheit) |
| Operation Hours | = | Displays operating time | xx:xx h | Displays total operating time in hours and minutes |

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## SETUP AND INSTALLATION

Thanks to its four plastic feet, the spotlight can be placed in a suitable location on a flat surface. Install on a crossbeam using the prein-stalled mounting bracket (A) and a suitable crossbeam clamp (available as an accessory). Make sure that the spotlight is firmly attached and secure it using a suitable safety cable on the designated location on the
top of the spotlight (B). The laterally mounted level screw (C) is used to configure the vertical beam angle.A distance of at least 0.1 meters must be kept between objects or walls located adjacent, above, or behind the spotlight; a distance of at least 0.5 meters must be kept in front of the spotlight in the cone of light.

**WARNING:** Overhead installation requires extensive experience, including the calculation of the load limit values of the installation material and regular safety inspection of all installation materials and spotlights. If you do not have these qualifications, do not attempt to carry out the installation yourself; contact a professional company. There is a risk that incorrectly mounted or secured devices may come loose and fall down. This may lead to serious injury and even fatalities.



## INSTALL/REMOVE ACCESSORIES

To install or remove the barn doors and the filter frame, please push the spring-loaded locking pin (D) of the retaining bracket so that it folds upwards. Do not forget afterwards to return the retaining bracket back to the original position so that the locking pins click back into their locked position.
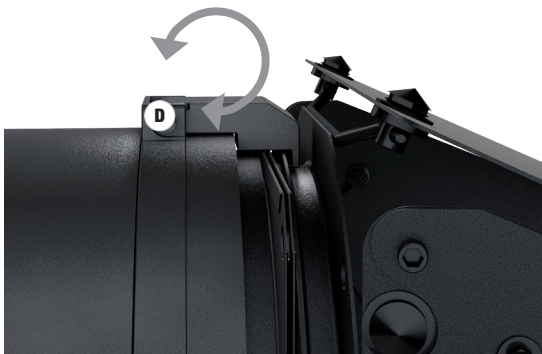


**WARNING:**
For safety reasons, the filter frame must always be in the respective retaining bracket on
the spotlight, even if no filter is inserted!

**WARNING:**
Always secure the filter frame, and the barn door if used, to the spotlight using the enclosed safety cable!

## CARE AND MAINTENANCE – CLEANING LENSES

The front lens (E) and its rubber frame can be cleaned by flipping the retaining bracket upwards as previously described and then drawing the front lens and its rubber frame as well as the filter frame upwards out of the retention arms. Clean the front lens with a moist, lint-free cloth, making sure not to let moisture into the device and not to scratch the surface of the lens. Do not put the front lens and filter frame back into the support arms until all equipment and accessories are completely dry. Then return the retaining bracket back to its downward position until the locking pins click into place.



## OPTIONAL ACCESSORIES

A mounting plate with V-mount adapter and connection cable for an external standard 14.4 or 14.8 volt V-mount battery is optionally available. Article number: CLF1VMOUNTAP



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# DMX TECHNOLOGY

### DMX-512

DMX (Digital Multiplex) is the designation for a universal transmission protocol for communications between corresponding devices and controllers. A DMX controller sends DMX data to the connected DMX device(s). The DMX data is always transmitted as a serial data stream that is forwarded from one connected device to the next via the "DMX IN" and "DMX OUT" connectors (XLR plug-type connectors) that are found on every DMX-capable device, provided the maximum number of devices does not exceed 32 units. The last device in the chain needs to be equipped with a terminator (terminating resistor).

### DMX CONNECTION

DMX is the common "language" via which a very wide range of types and models of equipment from various manufacturers can be connected with one another and controlled via a central controller, provided that all of the devices and the controller are DMX compatible. For optimum data transmission, it is necessary to keep the connecting cables between the individual devices as short as possible. The order in which the devices are integrated in the DMX network has no influence on the addresses. Thus the device with the DMX address 1 can be located at any position in the (serial) DMX chain: at the beginning, at the end or somewhere in the middle. If the DMX address 1 is assigned to a device, the controller "knows" that it should send all data allocated to address 1 to this device regardless of its position in the DMX network.

### SERIAL CONNECTION OF MULTIPLE LIGHTS

1. Connect the male XLR connector (3-pin or 5-pin) of the DMX cable to the DMX output (female XLR socket) of the first DMX device (e.g. DMX-Controller).
2. Connect the female 3-pin XLR connector of the DMX cable connected to the first projector to the DMX input (male 3-pin socket) of the next DMX device. In the same way, connect the DMX output of this device to the DMX input of the next device and repeat until all devices have been connected. Please note that as a rule, DMX devices are connected in series and connections cannot be shared without active splitters. The maximum number of DMX devices in a DMX chain should not exceed 32 units.
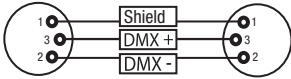
The Adam Hall 3 STAR, 4 STAR, and 5 STAR product ranges include an extensive selection of suitable cables.

### DMX CABLES

When fabricating your own cables, always observe the illustrations on this page. Never connect the shielding of the cable to the ground contact of the plug, and always make certain that the shielding does not come into contact with the housing of the XLR plug. If the shielding is connected to the ground, this can lead to short-circuiting and system malfunctions.

### Pin Assignment

DMX cable with 3-pin XLR connectors:                    DMX cable with 5-pin XLR connectors (pin 4 and 5 are not used):
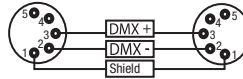
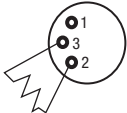### DMX TERMINATORS (TERMINATING RESISTORS)

To prevent system errors, the last device in a DMX chain needs to be equipped with a terminating resistor (120 ohm, 1/4 Watt).
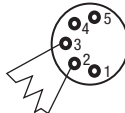3-pin XLR connector with a terminating resistor: K3DMXT3
5-pin XLR connector with a terminating resistor: K3DMXT5

### Pin Assignment

3-pin XLR connector:                    5-pin XLR connector:
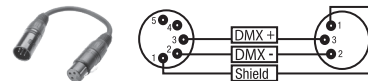
### DMX ADAPTER

The combination of DMX devices with 3-pin connectors and DMX devices with 5-pin connectors in a DMX chain is possible with suitable adapters.

### Pin Assignment

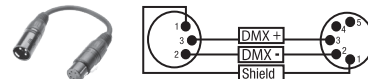DMX Adapter 5-pin XLR male to 3-pin XLR female: K3DGF0020
Pins 4 and 5 are not used.

### Pin Assignment

DMX Adapter 3-pin XLR male to 5-pin XLR female: K3DHM0020
Pins 4 and 5 are not used.

## TECHNICAL DATA

| Article number: | CLF1T | CLF1D |
|---|---|---|
| Product type: | LED spotlight | LED spotlight |
| Type: | Fresnel spotlight with zoom function | Fresnel spotlight with zoom function |
| Color spectrum: | Tungsten (warm white) 3000 K | Daylight (cold white) 5600K |
| CRI: | 98 | 98 |
| Number of LEDs: | 1 | 1 |
| LED type: | 78 W | 78 W |
| LED PWM frequency: | 800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable) | 800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable) |
| Beam angle: | 15.4°–54.3° (field 24.4°–77.5°) | 15.4°–54.3° (field 24.4°–77.5°) |
| DMX input: | 5-pin XLR, male | 5-pin XLR, male |
| DMX output: | 5-pin XLR, female | 5-pin XLR, female |
| DMX mode: | 1-channel, 2-channel, 2-channel 2, 3-channel 4-channel, 5-channel | 1-channel, 2-channel, 2-channel 2, 3-channel 4-channel, 5-channel |
| DMX functions: | Dimmer, fine dimmer, strobe, dimmer curve, dimmer response, PWM frequency, fan setting, display, default setting | Dimmer, fine dimmer, strobe, dimmer curve, dimmer response, PWM frequency, fan setting, display, default setting |
| Controller: | DMX512, RDM-enabled | DMX512, RDM-enabled |
| Stand-alone functions: | Dimmer, strobe, master/slave, quicklight | Dimmer, strobe, master/slave, quicklight |
| Control elements: | DIM / MENU rotary-push encoder, manual zoom | DIM / MENU rotary-push encoder, manual zoom |
| System settings: | Display flip, display lighting on/off, DMX fail, dimmer curves, dimmer response, PWM frequency, auto lock, fan setting, factory reset | Display flip, display lighting on/off, DMX fail, dimmer curves, dimmer response, PWM frequency, auto lock, fan setting, factory reset |
| Display elements: | OLED display | OLED display |
| Operating voltage: | 100–240 V AC / 50–60 Hz | 100–240 V AC / 50–60 Hz |
| Power consumption: | 87 W | 87 W |
| Luminous flux: | 4600 lm | 6000 lm |
| Efficiency: | 51 lm/W | 67 lm/W |
| Power supply connection: | "INPUT: Seetronic, compatible with PowerCON TRUE1 OUTPUT: Seetronic, compatible with PowerCON TRUE1 (max. 12 A)" | "INPUT: Seetronic, compatible with PowerCON TRUE1 OUTPUT: Seetronic, compatible with PowerCON TRUE1 (max. 12 A)" |
| Connection for external battery: | 4-pin XLR, male (Pin 1 = negative pole, Pin 4 = positive pole, standard 14.4 or 14.8 volt V-mount batteries) | 4-pin XLR, male (Pin 1 = negative pole, Pin 4 = positive pole, standard 14.4 or 14.8 volt V-mount batteries) |
| Ambient temperature (in operation): | -15 to +45°C | -15 to +45°C |
| Risk group: | RG1 | RG1 |
| Housing material: | Cast metal | Cast metal |
| Housing color: | Black | Black |
| Housing cooling: | Temperature-controlled fan + heat pipe | Temperature-controlled fan + heat pipe |
| Protection rating: | IP20 | IP20 |
| Dimensions (W × H × D, without mounting bracket and barn door): | 225 × 255 × 280 mm | 225 × 255 × 280 mm |
| Weight: | 5.5 kg | 5.5 kg |
| Additional features: | 150 mm Fresnel lens. Manual zoom. Mounting bracket. Safety cable for accessories, power cable, filter frame, and 8-way door barn included in package contents. V-mount adapter optionally available. | 150 mm Fresnel lens. Manual zoom. Mounting bracket. Safety cable for accessories, power cable, filter frame, and 8-way door barn included in package contents. V-mount adapter optionally available. |

ENGLISH

DEUTSCH

FRANCAIS

ESPAÑOL

POLSKI

ITALIANO

DMX

ENGLISH

DEUTSCH

FRANCAIS

ESPAÑOL

POLSKI

ITALIANO

DMX

# MANUFACTURER´S DECLARATIONS

### MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY
You can find our current warranty conditions and limitations of liability at: https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO_DE_EN_ES_FR.pdf. To request warranty service for a product, please contact Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach / Email: Info@adamhall.com / +49 (0)6081 / 9419-0.

### CORRECT DISPOSAL OF THIS PRODUCT
(valid in the European Union and other European countries with a differentiated waste collection system)
This symbol on the product, or on its documents indicates that the device may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

### FCC STATEMENT
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation

### CE Compliance
Adam Hall GmbH states that this product meets the following guidelines (where applicable):
R&TTE (1999/5/EC) or RED (2014/53/EU) from June 2017
Low voltage directive (2014/35/EU)
EMV directive (2014/30/EU)
RoHS (2011/65/EU)
The complete declaration of conformity can be found at www.adamhall.com.
Furthermore, you may also direct your enquiry to info@adamhall.com.

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